



## TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

<b>Title V Permit Number</b>	<b>104-0106-TV</b>
<b>Client/ Sequence /Town/Premises Numbers</b>	<b>138/13/104/14</b>
<b>Date Issued</b>	September 12, 2002
<b>Expiration Date</b>	September 12, 2007

**Corporation:**

**NRG Middletown Operations, Inc.**

**Premises Location:**

**1886 River Road, Middletown, Connecticut 06457**

**Name of Responsible Official and Title:**

**Daniel W. Bergeron, Plant Manager**

All of the following attached pages are hereby incorporated by reference into this Title V Operating Permit.

JANE K. STAHL  
Arthur J. Rocque, Jr.  
Commissioner

September 12, 2002  
Date

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## LIST OF ACRONYMS

<i>Acronym</i>	<i>Description</i>
acfm	Actual cubic feet per minute
ASC	Actual Stack Concentration
BACT	Best Available Control Technology
BAM	Bureau of Air Management
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.O.	Consent Order
CP/OP	Construction Permit/Operating Permit
CTG	Control Technology Guideline
DERC	Discrete Emission Reduction Credits
DEP	Department of Environmental Protection
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
EU	Emission Unit
FLER	Full load emission rate
GEU	Grouped Emission Unit
gph	Gallons per hour
gpm	Gallons per minute
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSR	New Source Review
PM	Particulate Matter
ppmv	Parts per million, volumetric basis
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
RMP	Risk Management Plan
SIC	Source Identification Code
SIP	State Implementation Plan
TOC	Total Organic Carbon
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

## **Title V Operating Permit**

**All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.**

## **Section I: Premises Information / Description**

### **A. PREMISES INFORMATION**

Nature of Business: Electric Power Generation

Primary SIC: 4911

Other SIC: none

Facility Mailing Address: NRG Middletown Operations, Inc. River Road, Middletown, CT 06457

Telephone Number: (860) 638-3031

### **B. PREMISES DESCRIPTION**

Middletown Station is located on River Road in Middletown, Connecticut. The station produces electricity for sale. The station consists of three steam electric generating boilers (Units 2, 3 and 4) and a combustion turbine (Unit 10) for the production of electricity. Additional emissions units at the station include one auxiliary steam boiler and two glycol burners used to heat the natural gas. The total electrical output from the station is 743 megawatts (MW).

Unit 2 (EMU1) is a traditionally fired Riley boiler rated at 1,295 MMBtu/Hr and capable of producing 117 MW. The unit is capable of burning No.6 oil, No.2 oil (for ignition only) and natural gas on an interruptible basis. The unit is covered under air registration number R104-0098.

Unit 3 (EMU2) is a B&W cyclone boiler rated at 2,370 MMBtu/Hr and capable of producing 236 MW. The unit is capable of burning No.6 oil, No.2 oil (for ignition only) and natural gas on an interruptible basis. The unit is covered under air registration number R104-0100.

Unit 4 (EMU3) is a traditionally fired Combustion Engineering boiler rated at 4,684 MMBtu/Hr and capable of producing 400 MW. The unit is capable of burning No.6 oil and No.2 oil for ignition only. The unit is covered under air permit number 104-0003.

Units 2, 3 and 4 are Phase II Acid Rain Sources and their CEM system has been certified in accordance with 40 CFR 75.

Unit 4A (EMU4) is a No.6 oil fired auxiliary steam boiler which provides steam for boiler warm-up. This unit is located within the main power plant building and shares a stack with EMU3. The unit is covered under air permit number 104-0002.

Unit 10 (EMU5) is a 20 MW Pratt & Whitney FT4A-8 combustion turbine. It is located east of the main power plant building. This unit is subject to Consent Order #8182 which discusses NOx RACT compliance and NOx trading ERCs for peaking units.

There are also two Cleaver Brooks gas-fired glycol boilers (EMU6 and EMU7) at Middletown Station. They are used to heat the natural gas supply and are located outside of the main power plant building in a separate shelter. These units are not subject to any unit specific applicable requirements in this permit.

The Middletown Station has been given approval to blend No.6 oil with > 0.5% sulfur. This activity has been determined to be less than 1.0 ton per year of potential emissions and thus is deemed an insignificant activity. However, the approval continues to be in effect given that NRG Middletown Operations, Inc. complies with the terms and conditions listed for fuel blending in Section III 'Premises Applicable Requirements' of this permit.

### Section III: Applicable Requirements and Compliance Demonstration

#### A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1.

<b>TABLE II.A.1: EMISSIONS UNIT DESCRIPTION</b>			
<b>Emissions Units</b>	<b>Emissions Unit Description</b>	<b>Control Unit Description</b>	<b>Permit, Order, or Registration Number*</b>
EMU1	Dual fuel fired 1,295 MMBtu/hr electric utility steam boiler, Unit 2	Electrostatic Precipitator and Boiler excess air control	R104-0098 and C.O. 7024
EMU2	Dual fuel fired 2,370 MMBtu/hr electric utility steam boiler, Unit 3	Electrostatic Precipitator, Boiler excess air control and SNCR	R104-0100 and C.O. 7024
EMU3	No.6 oil fired 4,684 MMBtu/hr electric utility steam boiler, Unit 4	Boiler excess air control	Permit 104-0003 and C.O. 7024
EMU4	No.6 oil fired auxiliary steam boiler, Unit 4A	Low NOx Burner and Flue Gas Recirculation	Permit 104-0002 and Consent Orders # 7024 and 8227
EMU5	Pratt & Whitney 20 MW No.2 oil fired Combustion Turbine Model FT4A-8, Unit 10	None	R105-0102 and C.O. 8182
EMU6	Cleaver Brooks Nat. Gas fired glycol boiler 7.5 MMBtu/hr	None	None
EMU7	Cleaver Brooks Nat. Gas fired glycol boiler 2.5 MMBtu/hr	None	None

(\*) It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Operating Permit.

### Section III: Applicable Requirements and Compliance Demonstration

The permittee shall be allowed to operate under the following standard operating scenarios (SOS) and alternative operating scenarios (AOS) without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises.

TABLE II.A.2: EMISSIONS UNIT IDENTIFICATION, SOS AND AOS		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
SOS1	EMU1 through EMU5	All emissions units associated with SOS1 shall be operated in accordance with applicable permit or registration terms and conditions, and in accordance with best management practices while all combustion sources shall operate combusting liquid fuels.
AOS1	EMU1, EMU2, EMU6, EMU7	All emissions units associated with AOS1 shall be operated in accordance with applicable permit or registration terms and conditions, and in accordance with best management practices while all combustion sources shall operate combusting natural gas.

### Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

#### A. EMISSIONS UNIT 1 (EMU1)

TABLE III.A: RILEY UTILITY STEAM BOILER (UNIT 2)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx burning No.6 oil	Less than or equal to 0.25 lbs/MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain daily and hourly records of fuel oil consumption.</li> <li>2. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM).</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
AOS1	NOx burning Natural Gas	Less than or equal to 0.20 lbs/MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain daily and hourly records of natural gas consumption.</li> <li>2. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM).</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: RILEY UTILITY STEAM BOILER (UNIT 2), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1 and AOS1	NOx Budget	NOx allowance compliance	RCSA 22a-174-22(a)	<p><u>Monitoring and Testing Requirements</u> The permittee shall achieve compliance with monitoring and testing as described in RCSA 22a-174-22a(i).</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described in RCSA 22a-174-22a(j).</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall report as described in RCSA 22a-174-22a(j).</li> <li>2. Also See Section VII</li> </ol>
SOS1	TSP	Less than or equal to 0.14 lbs/MMBtu heat input	<p>RCSA 22a-174-18(d)(1)</p> <p>RCSA 22a-174-33(o)(1)</p>	<p><u>Monitoring Requirements</u> The permittee shall maintain daily and hourly records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> <li>2. The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII The permittee shall report as described in RCSA 22a-174-22a(j)</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: RILEY UTILITY STEAM BOILER (UNIT 2), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Opacity	Less than 20% opacity, except that this limitation may be exceeded for no longer than five minutes in any 60 minute period provided that opacity does not exceed 40% at any time.	<p>RCSA 22a-174-18(a)(1)</p> <p>RCSA 22a-174-4(b)</p> <p>RCSA 22a-174-18(a)(1)(ii)</p> <p>RCSA 22a-174-4(c)(1)</p>	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain hourly records of fuel consumption.</li> <li>2. The permittee shall also operate and maintain a continuous opacity monitoring system in accordance with the regulations.</li> </ol> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance.</li> <li>2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.A: RILEY UTILITY STEAM BOILER (UNIT 2), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	SO <sub>x</sub>	Less than or equal to 0.5% sulfur by weight (dry basis)	RCSA 22a-174-33(o)(1)  RCSA 22a – 174-5(b)(1)  Consent Order 7024	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods.</p> <p><u>Record Keeping Requirements</u>  1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis).  2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	SO <sub>2</sub>	SO <sub>2</sub> Allowances	104-001-TIV 40 CFR 73, 40CFR75	<p><u>Monitoring, Record Keeping and Reporting Requirements:</u>  1. The permittee shall stay in compliance with the SO<sub>2</sub> allowance system of the Acid Rain Program defined in Title IV of the Clean Air Act Amendments of 1990.  2. The EMU1 (Unit 2) SO<sub>2</sub> allowances are 1,276 tons annually through 2004, at which time it increases to 1,328 annually through 2009.  3. Monitoring shall be done in accordance with 40CFR75 acid rain CEM guidelines.</p>

### Section III: Applicable Requirements and Compliance Demonstration

#### B. EMISSIONS UNIT 2 (EMU2)

TABLE III.B: B&W CYCLONE FIRED UTILITY STEAM BOILER (UNIT 3)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	NOx burning No.6 oil	Less than or equal to 0.43 lbs/MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain daily and hourly records of fuel oil consumption.</li> <li>2. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM).</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
AOS1	NOx burning Natural Gas	Less than or equal to 0.43 lbs/MBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain daily and hourly records of natural gas consumption.</li> <li>2. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM).</li> </ol> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B: B&W CYCLONE FIRED UTILITY STEAM BOILER (UNIT 3), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1 and AOS1	NOx Budget	NOx allowance compliance	RCSA 22a-174-22(a)	<p><u>Monitoring and Testing Requirements</u> The permittee shall achieve compliance with monitoring and testing as described in RCSA 22a-174-22a(i).</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described in RCSA 22a-174-22a(j).</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall report as described in RCSA 22a-174-22a(j).</li> <li>2. See Section VII</li> </ol>
SOS1	TSP	Less than or equal to 0.14 lbs/MMBtu heat input	<p>RCSA 22a-174-18(d)(1)</p> <p>RCSA 22a-174-33(o)(1)</p>	<p><u>Monitoring Requirements</u> The permittee shall maintain daily and hourly records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> <li>2. The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII The permittee shall report as described in RCSA 22a-174-22a(j)</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B: B&W CYCLONE FIRED UTILITY STEAM BOILER (UNIT 3), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Opacity	Less than 20% opacity, except that this limitation may be exceeded for no longer than five minutes in any 60 minute period provided that opacity does not exceed 40% at any time.	RCSA 22a-174-18(a)(1)  RCSA 22a-174-4(b)  RCSA 22a-174-18(a)(1)(ii)  RCSA 22a-174-4(c)(1)	<u>Monitoring and Testing Requirements</u> 1. The permittee shall maintain hourly records of fuel consumption. 2. The permittee shall also operate and maintain a continuous opacity monitoring system in accordance with the regulations.  <u>Record Keeping Requirements</u> 1. The permittee shall maintain records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance. 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.  <u>Reporting Requirements:</u> See Section VII

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B: B&W CYCLONE FIRED UTILITY STEAM BOILER (UNIT 3), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	SO <sub>x</sub>	Less than or equal to 0.5% sulfur by weight (dry basis)	RCSA 22a-174-33(o)(1)  RCSA 22a – 174-5(b)(1)  Consent Order 7024	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods.</p> <p><u>Record Keeping Requirements</u>  1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis).  2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	SO <sub>2</sub>	SO <sub>2</sub> Allowances	104-001-TIV 40 CFR 73, 40CFR75	<p><u>Monitoring, Record Keeping and Reporting Requirements:</u>  1. The permittee shall stay in compliance with the SO<sub>2</sub> allowance system of the Acid Rain Program defined in Title IV of the Clean Air Act Amendments of 1990.  2. The EMU2 (Unit 3) SO<sub>2</sub> allowances are 3,209 tons annually through 2004, at which time it increases to 3,339 annually through 2009  3. Monitoring shall be done in accordance with 40CFR75 acid rain CEM guidelines.</p>

### Section III: Applicable Requirements and Compliance Demonstration

#### C. EMISSIONS UNIT 3 (EMU3)

TABLE III.C: COMBUSTION ENGINEERING TANGENTIALLY FIRED UTILITY STEAM BOILER (UNIT 4)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx burning No.6 oil	Less than or equal to 0.25 lbs/MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"><li>1. The permittee shall maintain daily and hourly records of fuel oil consumption.</li><li>2. The permittee shall operate and maintain a Continuous Emission Monitoring system (CEM).</li></ol> <p><u>Record Keeping Requirements</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.C: COMBUSTION ENGINEERING TANGENTIALLY FIRED UTILITY STEAM BOILER (UNIT 4), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	NOx Budget	NOx allowance compliance	RCSA 22a-174-22(a)	<p><u>Monitoring and Testing Requirements</u> The permittee shall achieve compliance with monitoring and testing as described in RCSA 22a-174-22a(i).</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described in RCSA 22a-174-22a(j).</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall report as described in RCSA 22a-174-22a(j).</li> <li>2. See Section VII</li> </ol>
SOS1	TSP	Less than or equal to 0.14 lbs/MMBtu heat input	<p>RCSA 22a-174-18(d)(1)</p> <p>RCSA 22a-174-33(o)(1)</p>	<p><u>Monitoring Requirements</u> The permittee shall maintain daily and hourly records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> <li>2. The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII The permittee shall report as described in RCSA 22a-174-22a(j)</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.C: COMBUSTION ENGINEERING TANGENTIALLY FIRED UTILITY STEAM BOILER (UNIT 4), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	Opacity	Less than 20% opacity, except that this limitation may be exceeded for no longer than five minutes in any 60 minute period provided that opacity does not exceed 40% at any time.	RCOSA 22a-174-18(a)(1) RCOSA 22a-174-4(b) RCOSA 22a-174-18(a)(1)(ii) RCOSA 22a-174-4(c)(1)	<p><u>Monitoring and Testing Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain hourly records of fuel consumption.</li> <li>2. The permittee shall also operate and maintain a continuous opacity monitoring system in accordance with the regulations.</li> </ol> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance.</li> <li>2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.C: COMBUSTION ENGINEERING TANGENTIALLY FIRED UTILITY STEAM BOILER (UNIT 4), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SO <sub>x</sub>	Less than or equal to 0.5% sulfur by weight (dry basis)	RCSA 22a-174-33(o)(1)  RCSA 22a – 174-5(b)(1)  Consent Order 7024	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods.</p> <p><u>Record Keeping Requirements</u>            1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis).            2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	SO <sub>2</sub>	SO <sub>2</sub> Allowances	104-001-TIV 40 CFR 73, 40CFR75	<p><u>Monitoring, Record Keeping and Reporting Requirements:</u>            1. The permittee shall stay in compliance with the SO<sub>2</sub> allowance system of the Acid Rain Program defined in Title IV of the Clean Air Act Amendments of 1990.            2. The EMU3 (Unit 4) SO<sub>2</sub> allowances are 2,296 tons annually through 2004, at which time it increases to 2,390 annually through 2009.            3. Monitoring shall be done in accordance with 40CFR75 acid rain CEM guidelines.</p>

### Section III: Applicable Requirements and Compliance Demonstration

#### D. EMISSIONS UNIT 4 (EMU4)

TABLE III.D: NO.6 OIL FIRED AUXILIARY STEAM BOILER (UNIT 4A)				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	TSP	Less than or equal to 0.14 lbs/MMBtu heat input	RCSA 22a-174-18(d)(1)  RCSA 22a-174-33(o)(1)	<p><u>Monitoring Requirements</u> The permittee shall maintain daily records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> <li>2. The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII The permittee shall report as described in RCSA 22a-174-22a(j)</p>
SOS1	Opacity	Less than 20% opacity, except that this limitation may be exceeded for no longer than five minutes in any 60 minute period provided that opacity does not exceed 40% at any time.	RCSA 22a-174-18(a)(1)  RCSA 22a-174-4(b)  RCSA 22a-174-18(a)(1)(ii)  RCSA 22a-174-4(c)(1)	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance.</li> <li>2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.D: NO.6 OIL FIRED AUXILIARY STEAM BOILER (UNIT 4A), CONTINUED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx	Less than or equal to 0.5% sulfur by weight (dry basis)	RCSA 22a-174-33(o)(1)  RCSA 22a – 174-5(b)(1)  Consent Order 7024	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods.</p> <p><u>Record Keeping Requirements</u>  1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis).  2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	NOx burning No.6 oil	Less than or equal to 0.25 lbs/MMBtu	RCSA 22a-174-22(d)  Consent Order 8227	<p><u>Monitoring and Testing Requirements</u>  1. The permittee shall maintain daily records of fuel oil consumption.  2. The permittee, in accordance with the provisions of Consent Order 8227 and pursuant to Section 22a-174-22(d)(3) of the Regulations, shall comply with Section 22a-174-22(d)(1) of the Regulations through use of DERC trading.  3. The permittee, in order to employ DERC trading, shall comply with paragraphs 1 through 8 below.</p>

### Section III: Applicable Requirements and Compliance Demonstration

#### NO.6 OIL FIRED AUXILIARY STEAM BOILER (UNIT 4A), CONTINUED

1. The permittee shall acquire approved DERCs for compliance with the emission standards in Section 22a-174-22 of the RCSA for the period beginning December 1, 2001, and continuing until Respondent achieves permanent compliance for the auxiliary boiler with the emission standards in Section 22a-174-22(e) of the RCSA or until May 1, 2003, whichever occurs first. The permittee shall acquire approved DERCs, and document and record the amounts of NOx emissions and DERCs used by serial number (if assigned) by the auxiliary boiler each day, and shall maintain and provide such records in accordance with the following and Section 22a-174-4 of the RCSA, until May 1, 2003:
  - a. Before the first day of each month the permittee shall calculate projected worst case DERCs required for that calendar month as follows:  
  
$$\text{DERCs (tons) estimated} = \{[\text{Full Load Emission Rate ("FLER") in lbs/MMBtu} - ((0.95) \times (\text{the limit in Section 22a-174-22(e) of the RCSA or proportioned emission rate calculated pursuant to Section 22a-174-22(f)(2)(A) of the RCSA in lbs/MMBtu}))] \times (\text{estimated fuel use in MMBtu})\} \div 2000 \text{ pounds.}$$
  - b. The permittee shall acquire sufficient approved DERCs no later than the first day of each month to assure compliance with the emission standards in Section 22a-174-22 of the RCSA for, at a minimum, that calendar month. Excess DERCs from previous months can be applied to subsequent months. At a minimum, DERCs required shall be adjusted upwards by 100% if DERCs are not in the permittee's possession prior to the first day of each month.
  - c. No later than the twentieth day of each month the permittee shall calculate DERCs used in the preceding calendar month, as follows:  
  
$$\text{DERCs (tons) actual} = \{[(\text{FLER in lbs/MMBtu}) - ((0.95) \times (\text{limit in Section 22a-174-22(e) of the RCSA or proportioned emission rate calculated pursuant to Section 22a-174-22(f)(2)(A) of the RCSA in lbs/MMBtu}))] \times (\text{actual fuel use in MMBtu})\} \div 2000 \text{ pounds.}$$
  - d. The permittee shall comply during the operation of the auxiliary boiler with a FLER of .44 lbs/MMBtu heat input, averaged on a 24-hour basis, until the permittee achieves permanent compliance for the auxiliary boiler with the emission standards in Section 22a-174-22(e) of the RCSA or until May 1, 2003, whichever occurs first.

### **Section III: Applicable Requirements and Compliance Demonstration**

#### **NO.6 OIL FIRED AUXILIARY STEAM BOILER (UNIT 4A), CONTINUED**

2. In accordance with the provisions of Section 22a-174-22(k) of the RCSA, the permittee shall conduct a NOx emission test of the auxiliary boiler no later than June 30<sup>th</sup> of each calendar year, following the issuance of Consent Order 8227, and continuing until the Commissioner's administrative enforcement representative approves results of three consecutive annual NOx emission tests for the auxiliary boiler, each of which demonstrate compliance with the allowable emission rate in Section 22a-174-22(e) of the RCSA.
3. Subsequent to Department approval of three consecutive annual NOx emission tests for the auxiliary boiler demonstrating compliance with the allowable emission rate in Section 22a-174-22(e) of the RCSA, the permittee shall conduct, in accordance with the provisions of Section 22a-174-22(k) of the RCSA, NOx emission tests of the auxiliary boiler at least once every five years commencing from the date of the last NOx emission test of the three consecutive annual NOx emission tests that demonstrated compliance with the allowable emission rate in Section 22a-174-22(e) of the Regulations.
4. The FLER as set forth in Consent Order 8227 may be modified only after the consent of the Commissioner by written modification of Consent Order 8227.
5. Noncompliance with an established FLER shall subject the permittee to make restitution by matching the quantity of emissions ("true up") caused by the exceedance plus a 100% premium. The true up in tons of DERCS shall be equal to the FLER exceedance in lbs/MMBtu, multiplied by the total heat input during the period of noncompliance divided by 2000 lbs/ton. If the period of noncompliance is not known, the time period from the completion of the last/previous Department witnessed stack test through the date the FLER compliance is achieved as approved by the Commissioner shall be used. However, nothing in Consent Order 8227 shall affect the Commissioner's authority to institute any proceeding or take any other action to require additional upward adjustment, based on the gravity of any alleged noncompliance or violation of law.
7. The permittee shall make and keep records as described for the auxiliary boiler including daily NOx mass emissions, and actual NOx emission rates (24-hour average), for a minimum of five (5) years commencing on the date such records were created.
8. No later than March 1 of every year after issuance of Consent Order 8227, the permittee shall include with the Annual Emission Statement provided to the Commissioner, actual NOx emissions from the auxiliary boiler, and the amount of all DERCS used (including serial numbers (if assigned) and approved DERCS purchased from other facilities) for the previous calendar year. These reports shall be on a form prescribed by the Commissioner. This reporting shall be consistent with the records produced in accordance with Consent Order 8227. This reporting may cease if a central registry is approved by the Commissioner. For additional reporting requirements see Section VII.

### Section III: Applicable Requirements and Compliance Demonstration

#### E. EMISSIONS UNIT 5 (EMU5)

TABLE III.E: P&W 20MW GAS TURBINE (UNIT 10)				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	NOx	Less than or equal to 0.289 lbs/MMBtu	Consent Order # 8182  RCSA 22a-174-22(e)(1)	<u>Monitoring and Testing Requirements</u> 1. The permittee shall maintain daily records of fuel consumption. 2. The permittee shall conduct emissions tests at least once every five years. Such tests shall be conducted no later than five years from the date of the last test for the subject unit or no later than five years from the date the last test for the subject unit should have been conducted, whichever is earlier.  <u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.  <u>Reporting Requirements:</u> See Section VII
SOS1	NOx Budget	NOx allowance compliance	RCSA 22a-174-22(a)	<u>Monitoring and Testing Requirements</u> The permittee shall achieve compliance with monitoring and testing as described in RCSA 22a-174-22a(i).  <u>Record Keeping Requirements</u> The permittee shall make and keep records as described in RCSA 22a-174-22a(j).  <u>Reporting Requirements:</u> 1. The permittee shall report as described in RCSA 22a-174-22a(j). 2. See Section VII

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: P&W 20MW GAS TURBINE (UNIT 10), CONTINUED				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	TSP	Less than or equal to 0.20 lbs/MMBtu heat input	RCSA 22a-174-18(d)(1)  RCSA 22a-174-33(o)(1)	<p><u>Monitoring Requirements</u> The permittee shall maintain daily records of fuel consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> <li>2. The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII The permittee shall submit emissions calculations to the Commissioner every six months commencing from the date of issuance of this Title V permit.</p>
SOS1	Opacity	Less than 20% opacity, except that this limitation may be exceeded for no longer than five minutes in any 60 minute period provided that opacity does not exceed 40% at any time.	RCSA 22a-174-18(a)(1) RCSA 22a-174-4(b) RCSA 22a-174-18(a)(1)(ii) RCSA 22a-174-4(c)(1)	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel consumption.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain records of the dates and times of all opacity exceedances including the operating conditions at the time of the exceedance.</li> <li>2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</li> </ol> <p><u>Reporting Requirements:</u> See Section VII</p>

### Section III: Applicable Requirements and Compliance Demonstration

TABLE III.E: P&W 20MW GAS TURBINE (UNIT 10), CONTINUED				
*Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SO <sub>x</sub>	Less than or equal to 0.3% sulfur by weight (dry basis)	RCSA 22a-174-19(a)(2)(i)	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily and hourly records of fuel consumption. The permittee shall obtain a certification from the fuel supplier stating the sulfur content in each fuel shipment received at the premises.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	Hours of Operation	168 Hours per calendar year unless a continuous emission monitor for opacity is installed	<p>RCSA 22a-174-4(b)(3)</p> <p>RCSA 22a-174-4(b)(3)(i)</p> <p>RCSA 22a-174-4(b)(3)</p>	<p><u>Monitoring and Testing Requirements</u> The permittee shall record every hour of operation for this turbine unit and keep records of the hours of operation on a calendar year basis.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
SOS1	NO <sub>x</sub> Emission Reduction Credits (ERCs)	For NO <sub>x</sub> emissions greater than the allowable rate of 0.289 lbs/MMBtu	<p>RCSA 22a-174-22(j),</p> <p>Trading Agreement and Order # 8182</p>	<ol style="list-style-type: none"> <li>ERCs must be obtained for excess emissions as defined by Trading Agreement and Order # 8182.</li> <li>The permittee shall comply with paragraphs i through iv below.</li> </ol>

### Section III: Applicable Requirements and Compliance Demonstration

- i. In accordance with Trading Agreement and Order # 8182, prior to the beginning of the 1998 ozone season and continuing until 2002 or modification and/or discontinuance of the Department of Environmental Protection's "*Credit Trading for Sources with Irregular NOx Emissions*" policy, revised on February 10, 2000, the permittee shall have in its possession the greater of: 1) the total anticipated excess NOx emissions in tons for the entire ozone season (mass basis); or 2) the maximum estimated excess NOx emissions in pounds per day divided by 3 divided by 13 pounds per day per ton (peak (daily rate) basis). The underlying emission rates, units, and hours of operation set forth in Exhibit 1 may be modified only after consent of the Commissioner by written modification of Trading Agreement and Order # 8182.
- ii. For 2000 non-ozone season and continuing through the 2002 ozone season or modification and/or discontinuance of the Department of Environmental Protection's "*Credit Trading for Sources with Irregular NOx Emissions*" policy, revised on February 10, 2000, The permittee shall obtain ERCs pursuant to the following calculation prior to each month that ERCs are used:

$$\text{ERCs (tons)} = [(\text{FLER in lbs/MMBtu}) - 0.95 \times 0.289 \text{ lbs/MMBtu}] \times (\text{anticipated fuel use in MMBtu}) \div 2000 \text{ lbs/ton}$$

where: FLER is defined in Trading Agreement and Order # 8182 (Table 1) in lbs/MMBtu for EMU5

- iii. Within thirty (30) days of the 1999 non-ozone season and continuing thereafter while Trading Agreement and Order # 8182 remains in effect, the permittee shall calculate the actual ERCs used on a monthly basis during said months and non-ozone seasons pursuant to the following calculation:

$$\text{ERCs (tons)} = [(\text{FLER in lbs/MMBtu}) - 0.95 \times 0.289 \text{ lbs/MMBtu}] \times (\text{actual fuel use in MMBtu}) \div 2000 \text{ lbs/ton} .$$

- iv. No later than March 1st of every year that Trading Agreement and Order # 8182 is in effect, the permittee shall include with its annual emissions report to the Commissioner, the fuel consumed and ERCs used for the previous calendar year (by ozone and non-ozone seasons).

## Section IV: Compliance Schedule

### F. PREMISES-WIDE GENERAL REQUIREMENTS

<b>Table III.F: PREMISES-WIDE GENERAL REQUIREMENTS</b>		
<b>Pollutants or Process Parameters</b>	<b>Applicable Regulatory References/Citations</b>	<b>Compliance Demonstration Requirements</b>
Annual Emission Statements	RCSA § 22a-174-4	The permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA § 22a-174-4(c)(1).
Emergency Episode Procedures	RCSA § 22a-174-6	The permittee shall comply with the procedures for emergency episodes as specified in RCSA § 22a-174-6.
Public Availability of Information	RCSA § 22a-174-10	The public availability of information shall apply, as specified in RCSA § 22a-174-10.
Prohibition against Concealment/ circumvention	RCSA § 22a-174-11	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA § 22a-174-11.
SO <sub>x</sub>	RCSA § 22a-174-19a	The permittee shall comply with all terms and conditions required by RCSA § 22a-174-19a and of Consent Order # 7024.
NO <sub>x</sub> RACT	RCSA § 22a-174-22	The permittee shall comply with all terms and conditions required by RCSA § 22a-174-22 and of Consent Orders # 8182 and #8227.
Emission Fees	RCSA § 22a-174-26	The permittee shall pay an emission fee in accordance with RCSA § 22a-174-26(d).

## Section IV: Compliance Schedule

Table III.F: PREMISES-WIDE GENERAL REQUIREMENTS		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Fuel oil Blending	RCSA §22a-174-19	<p>The DEP hereby grants approval to the permittee to receive, store, and blend fuel oil with greater than one half of one percent (0.5%) sulfur by dry weight in its non-operating, non-day tanks which are filled for daily burn, at the site, provided that the permittee complies with the following conditions:</p> <ol style="list-style-type: none"> <li>1. The permittee shall maintain records of the volume and sulfur content by dry weight of any and all fuel transfers into, out of, and between tanks;</li> <li>2. The permittee shall inform the DEP in writing at least three (3) days prior to transferring fuel with greater than one half of one percent (0.5%) sulfur dry weight from the facility to site(s) outside of Connecticut and shall specify the volume, percent (%) sulfur content by dry weight, and destination(s) of the fuel transferred;</li> <li>3. The permittee shall not dispense, under any circumstances, any fuel with greater than one half of one percent (0.5%) sulfur content by dry weight or any non-conforming fuel from any tank for distribution to a fuel user in Connecticut. Any fuel with greater than one half of one percent (0.5%) sulfur dry weight at any facility shall only be transferred to sites outside of Connecticut, and never transferred to site(s) in Connecticut; and</li> <li>4. The permittee shall designate one operating tank on the premises at all times to store fuel with one half of one percent (0.5%) sulfur by dry weight or less to supply its own generating units. Such operating tank(s) may be designated as any of the non-day tanks to allow for routine maintenance or repairs.</li> <li>5. Failure to maintain such records or failure to inform the DEP of all transfers may result in the DEP's revocation of approval.</li> </ol>

## Section IV: Compliance Schedule

TABLE IV: COMPLIANCE SCHEDULE				
Emissions units	Applicable regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting
		There are no steps required to achieve compliance (Milestones).		

## **Section V: State Enforceable Terms and Conditions**

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- A.** This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
- C.** Odors: The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises as set forth in RCSA Section 22a-174-23.
- D.** Noise: The permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA Section 22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA Section 22a-174-29.
- F.** Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by CGS Section 22a-174(f).
- G.** Fuel Sulfur Content: The permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS Section 22a-21a.

## Section VI: Permit Shield

In accordance with Section 22a-174-33(k) of the RCSA, a permittee complying with the conditions of this permit shall be deemed in compliance with any applicable requirements identified in Table VI below as of the date of issuance. Also, in accordance with Section 22a-174-33(k) of the RCSA, a permittee complying with the conditions of this permit shall be deemed exempt from any non-applicable requirements identified below as of the date of issuance.

This permit shall not alter or affect the following:

- A. the provisions of section 303 of the Clean Air Act, including the authority of the Administrator under the Act;
- B. the liability of an owner or operator of a Title V source for any violation of applicable requirements prior to or at the effective date of a Title V permit;
- C. the applicable requirements of the acid rain program under 40 CFR Part 72; and
- D. the ability of the Administrator or Commissioner to obtain information from the owner or operator of a Title V source.

TABLE VI: PERMIT SHIELD				
Regulated Pollutants	Emissions Units	Applicable Requirement or Non-Applicable Requirement Descriptions	Applicable Regulatory References	*Applicability
		No permit shields have been granted.		

\*For Applicability, use AR to indicate Applicable Requirement and NR for Non- Applicable Requirement

## **Section VII: Title V Requirements**

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

### **A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR**

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

### **B. CERTIFICATIONS [RCSA § 22a-174-33(b)]**

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

### **C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]**

If an authorization pursuant to Section 22a-174-2a(a) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-2a(a)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-2a(a)(2) of the RCSA.

## **Section VII: Title V Requirements**

### **D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]**

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

### **E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]**

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

### **F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]**

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;

## **Section VII: Title V Requirements**

8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

### **G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]**

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

### **H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]**

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

### **I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]**

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

### **J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]**

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA.

## **Section VII: Title V Requirements**

### **K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]**

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

### **L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]**

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

### **M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]**

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

### **N. PERMIT AVAILABILITY**

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

### **O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]**

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

### **P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]**

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

## **Section VII: Title V Requirements**

### **Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]**

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

### **R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]**

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

### **S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]**

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

### **T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]**

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

### **U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]**

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

## **Section VII: Title V Requirements**

### **V. TRANSFERS [RCSA § 22a-174-2a(g)]**

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

### **W. REVOCATION [RCSA § 22a-174-2a(h)]**

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182c of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

### **X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]**

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

### **Y. CREDIBLE EVIDENCE**

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.